

# NSTC

NASA SAFETY TRAINING CENTER

# PAYLOAD

## SAFETY REVIEW PROCESS & REQUIREMENTS

**Location: Goddard Space Flight Center,**

**Dates & Time: April 28, 2000**

**8:00 am - 4:00 pm**

**.6 CEUs Available Upon Request**

### **Philosophy:**

The payload safety process is an integrated effort of analysis, review, certification, and follow-up to assure implementation. Analysis is a demanding process that requires an ability to dissect systems, recognize hazards, and properly document them for corrective action. Hazard recognition is the most important skill one can develop for this process followed closely by an ability to effectively document findings. Review of the analysis process is necessary to assure that corrective actions are viable and acceptable prior to implementation and verification.

### **Scope:**

This course is designed for those who design and fly payloads on the Space Shuttle. The target audience is payload program managers and their safety and engineering staff personnel.

### **Objective:**

- Provide an understanding of the relationship between safety and the payload integration process
- Orient the student to the payload safety review process
- Provide an understanding of payload safety requirements and how to comply with them

All Payloads that are flown on the Space Shuttle must successfully pass the NASA Payload Safety Review Panel (PSRP) evaluation process. This course is designed as a survival guide to the payload safety review for payload program safety and management personnel. The student will gain an understanding of payload safety as it relates to the overall payload integration process, how the payload safety review process works and the roles and responsibilities of the various players in the payload safety review process. In addition, the student will be instructed in the hands-on fundamentals of payload hazard analysis, hazard documentation and presentation of analysis to the PSRP. The course encompasses topics such as payload integration, the Shuttle payload safety process, the payload safety review process, roles and responsibilities in the payload safety process, hazard analysis techniques and documentation, and the safety data package.

The presentation is specific to mid-deck and payload bay articles. Primary references for the course are KHB 1700.7B, NSTS 1700.7B, NSTS 18798, and NSTS 13830 with supplemental information from other references. International Space Station payload safety issues and processes are also discussed.

### **About the Instructor:**

Mr. Larry Gregg, ASP, employed with Muniz Engineering, Inc., holds a B.S. in Chemical Engineering from Oklahoma State University and an MBA from Golden Gate University. He served 20 years with the US Air Force, obtaining extensive experience in instruction including over 7 years as a missile launch instruction in the Strategic Air Command. In the 3-1/2 years prior to his retirement, he held the position of system safety branch chief for the defense, surveillance, and experimental programs at the Air Force Space Systems Division in Los Angeles, CA where he developed and taught a week-long course in acquisition system safety.

To register, please fill out the attached training registration form and mail or fax to:

**Aric Justice, Mailstop: 803 E-107**

**Telephone: (757)824-1121 Fax: (757)824-1518**

## TRAINING REGISTRATION FORM

NAME: \_\_\_\_\_

ORGANIZATION: \_\_\_\_\_

MAILCODE: \_\_\_\_\_

SOCIAL SECURITY NUMBER: \_\_\_\_\_

PHONE NUMBER: \_\_\_\_\_

COURSE TITLE: Payload Safety Review Process & Requirements

COURSE DATE: April 28, 2000

EMPLOYEE SIGNATURE: \_\_\_\_\_

SUPERVISOR SIGNATURE: \_\_\_\_\_

### **NOTE:**

PLEASE MAIL INTERNALLY TO: **Aric Justice, Mailstop: 803 E-107**  
**Telephone: (757)824-1121 Fax: (757)824-1518**

### PRIVACY ACT NOTICE

**GENERAL**-This information is provided pursuant to Public Law 93-579 (Privacy Act of 1974), December 31, 1974, for individuals completing Federal nomination for training forms.

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**Purposes and Uses**-The information on this form is used in the administration of the Federal Training Program. The purpose of this form is to document the nomination of trainees and completion of training; and it serves as the principle repository of personal, fiscal and administrative information about the trainee and the programs in which they participate. The form becomes a part of the permanent employment record of participants in training programs and is included in the Government's Center Personnel Data File.

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### **Information Regarding Disclosure of Your Social Security Number Under Public Law 93-579, Section 7 (b)-**

Disclosure by you of your Social Security Number (SSN) is mandatory to obtain the training you are seeking. Solicitation of the SSN by the United States Civil Service Commission is authorized under provisions of the Executive Order 8397, dated November 22, 1943. The SSN is used as an identifier to match the person completing the training with the correct master record in the Central Personnel Data File (CPDF). It will be used primarily to give you the recognition for completing the training and to accumulate government-wide training statistical information. The information gathered through the use of the number will be used only as necessary in training administration processes carried out in accordance with established regulations. The SSN also will be used for the selection of persons to be included in statistical studies of training management matters. The use of the SSN is made necessary because of the large number of present Federal employees who have identical names and birth dates, and whose identities can only be distinguished by the SSN.